CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/WNo.13/KRIDL/CSR-09/134a/CUBE/2016-17 13.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	: Improvements of CC roads and RCC drains at Bylappa Circle 9th A & B Cross 1 & 2nd Cross back side to Mutturayaswamy Temple Roads and other roads in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: AEE/SSD/PR/63/2016-17 Dated: 02.09.2016
* Sample ID	: RCC Drain Bed Slab Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day
Sample Received on	: 13.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.09.2016	13.09.2016	8.098	345.9	15.37
2	06.09.2016	13.09.2016	8.137	357.8	15.90
3	06.09.2016	13.09.2016	8.240	371.4	16.51

* Information is furnished by the Customer/Representative

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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T-2377

Job No.: CTCE/BBMP/WNo.13/KRIDL/CSR-09/134a/CUBE/2016-17 04.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer**	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* **Agency**	: **Technical Manager (West),** KRIDL, Bangalore.
* **Name of the work**	: Improvements of CC roads and RCC drains at Bylappa Circle 9th A & B Cross 1 & 2nd Cross back side to Mutturayaswamy Temple Roads and other roads in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: AEE/SSD/PR/63/2016-17 Dated: 02.09.2016
* **Sample ID**	: RCC Drain Bed Slab Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* **Grade of Concrete**	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 04.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.09.2016	04.10.2016	8.148	478.9	21.28
2	06.09.2016	04.10.2016	8.283	494.7	21.99
3	06.09.2016	04.10.2016	8.397	514.6	22.87

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/WNo.13/KRIDL/CSR-09/134a/CUBE/2016-17 15.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	: Improvements of CC roads and RCC drains at Bylappa Circle 9th A & B Cross 1 & 2nd Cross back side to Mutturayaswamy Temple Roads and other roads in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: AEE/SSD/PR/63/2016-17 Dated: 02.09.2016
* Sample ID	: RCC Drain Side Wall Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day
Sample Received on	: 15.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.09.2016	15.09.2016	8.254	342.6	15.23
2	08.09.2016	15.09.2016	8.368	361.4	16.06
3	08.09.2016	15.09.2016	8.415	373.5	16.60

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Job No.: CTCE/BBMP/WNo.13/KRIDL/CSR-09/134a/CUBE/2016-17 06.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	: Improvements of CC roads and RCC drains at Bylappa Circle 9th A & B Cross 1 & 2nd Cross back side to Mutturayaswamy Temple Roads and other roads in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: AEE/SSD/PR/63/2016-17 Dated: 02.09.2016
* Sample ID	: RCC Drain Side Wall Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 06.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.09.2016	06.10.2016	8.098	473.8	21.06
2	08.09.2016	06.10.2016	8.153	488.7	21.72
3	08.09.2016	06.10.2016	8.246	502.4	22.33

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Job No.: CTCE/BBMP/WNo.13/KRIDL/CSR-09/134a/CUBE/2016-17 17.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	: Improvements of CC roads and RCC drains at Bylappa Circle 9th A & B Cross 1 & 2nd Cross back side to Mutturayaswamy Temple Roads and other roads in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: AEE/SSD/PR/63/2016-17 Dated: 02.09.2016
* Sample ID	: RCC Drain Covering Slab Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day
Sample Received on	: 17.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2016	17.09.2016	8.173	339.8	15.10
2	10.09.2016	17.09.2016	8.249	349.7	15.54
3	10.09.2016	17.09.2016	8.385	362.9	16.13

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Job No.: CTCE/BBMP/WNo.13/KRIDL/CSR-09/134a/CUBE/2016-17 08.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	: Improvements of CC roads and RCC drains at Bylappa Circle 9th A & B Cross 1 & 2nd Cross back side to Mutturayaswamy Temple Roads and other roads in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: AEE/SSD/PR/63/2016-17 Dated: 02.09.2016
* Sample ID	: RCC Drain Covering Slab Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 08.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2016	08.10.2016	8.218	479.5	21.31
2	10.09.2016	08.10.2016	8.321	493.5	21.93
3	10.09.2016	08.10.2016	8.436	516.4	22.95

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Job No.: CTCE/BBMP/WNo.13/KRIDL/CSR-09/134a/Precast Slab/2016-17 13.09.2016

CEMENT CONCRETE CORE (PRECAST SLAB) TEST REPORT

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Improvements of CC roads and RCC drains at Bylappa Circle 9th A & B Cross 1 & 2nd Cross back side to Mutturayaswamy Temple Roads and other roads in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/SSD/PR/63/2016-17 Dated: 02.09.2016
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Precast Slab
Sample Received on	:	08.09.2016
Date of Testing	:	13.09.2016

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	76.00	0.376	2519.67	1.52	0.960	32.8	16.68	18.01	17.29	21.62
2	50.00	78.00	0.390	2546.48	1.56	0.965	33.1	16.87	18.22	17.58	21.97
3	50.00	77.00	0.389	2572.94	1.54	0.955	33.9	17.26	18.64	17.80	22.25

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CEMENT CONCRETE CORE (PRECAST SLAB) TEST REPORT

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
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* Name of work	:	Improvements of CC roads and RCC drains at Bylappa Circle 9th A & B Cross 1 & 2nd Cross back side to Mutturayaswamy Temple Roads and other roads in Ward No. 13, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/SSD/PR/63/2016-17 Dated: 02.09.2016
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Precast Slab
Sample Received on	:	08.09.2016
Date of Testing	:	13.09.2016

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	76.00	0.376	2519.67	1.52	0.960	32.8	16.68	18.01	17.29	21.62
2	50.00	78.00	0.390	2546.48	1.56	0.965	33.1	16.87	18.22	17.58	21.97
3	50.00	77.00	0.389	2572.94	1.54	0.955	33.9	17.26	18.64	17.80	22.25

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